

PATENT  
Docket No.: 19603/3641 (CRF D-933F)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) :	Francis Barany, John Zebala, Deborah Nickerson, Robert J. Kaiser, Jr., and Leroy Hood	)	Examiner: To Be Assigned
Serial No. :	Continuation of 09/480,515	)	Art Unit: To Be Assigned
Cnfrm. No. :	To Be Assigned	)	
Filed :	Herewith	)	
For :	A THERMOSTABLE LIGASE MEDIATED DNA AMPLIFICATION SYSTEM FOR THE DETECTION OF GENETIC DISEASES	)	

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.97-1.98

**Mail Stop: Patent Application**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form.

Pursuant to 37 CFR § 1.98(d), references 1-4, 6-11, 15-23, and 25-45 identified on the attached PTO-1449 form are not provided, because these references either were previously cited by or submitted to the PTO in parent U.S. Patent Application Serial No. 9/480,515, filed January 10, 2000, of which this application claims priority under 35 USC § 120.

Respectfully submitted,

Date: September 17, 2003

  
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 19603/3641 (CRF D-933F)	SERIAL NO. Continuation of 09/480,515
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT	
(use several sheets if necessary)		Francis Barany, John Zebala, Deborah Nickerson, Robert J. Kaiser, Jr., and Leroy Hood	
(PTO-1449)		FILING DATE Herewith	GROUP ART UNIT To Be Assigned

## U. S. PATENT DOCUMENTS

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	1	5,242,794	09/07/93	Whiteley, et al.			
	2	4,889,818	12/26/89	Gelfand, et al.			
	3	4,749,647	06/07/88	Thomas, et al.			
	4	4,988,617	01/29/91	Landegren, et al.			
	5	4,879,214	11/07/89	Kornher et al.			

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	8	130,515	25 Jun 1984	Europe			
	9	246,864	19 May 1987	Europe			
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	11	0 320 308	12 Dec 1988	Europe			
	12	2049879	1 March 2001	Canada			
	13	EP 0 373 962 A2	20 June 1989	Europe			
	14	EP A 0 185 494	25 June 1986	Europe			

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	15	Barany, F., et al., "Genetic Disease Detection and DNA Amplification Using Cloned Thermostable Ligase," Proc. Natl. Acad. Sci. USA, 88:189-93 (1991)
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	20	Lawyer, F.C., et al., "Isolation, Characterization, and Expression in <i>Escherichia coli</i> of the DNA Polymerase Gene from <i>Thermus Aquaticus</i> ," <i>J. Bio. Chem.</i> , 264(11):6427-37 (1989)
	21	Taguchi, H., et al., "A Chaperonin from a Thermophilic Bacterium, <i>Thermus Thermophilus</i> , That Controls Refoldings of Several Thermophilic Enzymes," <i>J. Biol. Chem.</i> , 266(33):22411-18 (1991)
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	26	Birkenmeyer, L.G., et al., "Mini-Review -- DNA Probe Amplification Methods," <i>J. Virol Methods</i> , 35:117-26 (1991)
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	35	Zimmerman, S.B., et al., "Macromolecular Crowding allows Blunt-end Ligation by DNA Ligases from Rat Liver or <i>Escherichia coli</i> ," 80:5852-5856 (1983)	
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	44	Matsada, G., et al., "The Primary Structure of L-1 Light Chain of Chicken Fast Skeletal Muscle Myosin and Its Genetic Implication," <i>FEBS Letters</i> , 126(1):111-113 (1981)
	45	Lathe, R., "Synthetic Oligonucleotide Probes Deduced from Amino Acid Sequence Data Theoretical and Practical Considerations," <i>J. Molec. Biol.</i> , 183:1-12 (1985)
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	35	Zimmerman, S.B., et al., "Macromolecular Crowding allows Blunt-end Ligation by DNA Ligases from Rat Liver or <i>Escherichia coli</i> ," 80:5852-5856 (1983)
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	19603/3641 (CRF D-933F)	Continuation of 09/480,515
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